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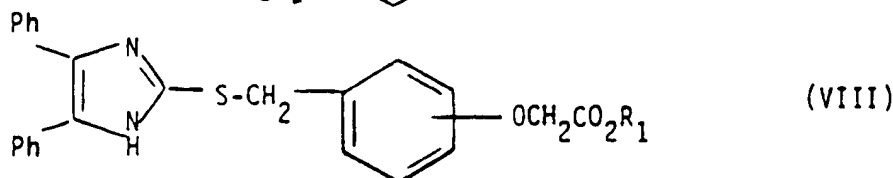
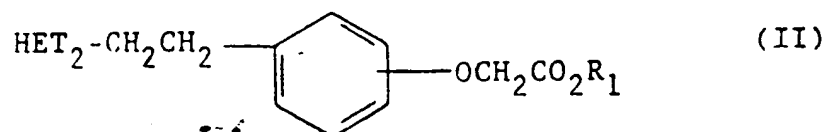
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**Heterocyclic carboxylic acids and esters.**

Heterocyclic acids and esters useful as inhibitors of mammalian blood platelet aggregation characterized by Formula I, II and VIII are disclosed.



Formula I compounds are those wherein n is 6-9, R is hydrogen, lower alkyl or an alkali metal ion, and HET<sub>1</sub> is heterocyclic radical selected from the group consisting of 3,4-diphenyl-1H-pyrrol-1-yl, 1,6-dihydro-6-oxo-3,4-diphenyl-1-pyridazinyl, 2,3-dihydro-3-oxo-5,6-diphenyl-1,2,4-triazin-2-yl, 1-oxo-4,5-diphenyl-2H-pyrimidin-1-yl, 2,5-dioxo-3,4-diphenylimidazolidin-1-yl, 5-(diphenylmethyl)-2H-tetrazol-2-yl, 4,5-diphenyl-2-thiazoyl, 4,5-diphenyl-1H-imidazol-2-yl, and 1,5-diphenyl-1H-pyrazol-3-yl.

Formula II compounds are those wherein R<sub>1</sub> is hydrogen, lower alkyl or an alkali metal ion, and the radical -OCH<sub>2</sub>CO<sub>2</sub>R is attached in the 3 or 4 ring position; and HET<sub>2</sub> is a heterocyclic radical selected from the group consisting of 4,5-diphenyl-2-thiazoyl, 4,5-diphenyl-1H-imidazol-2-yl, 3,4-diphenyl-1H-pyrazol-1-yl, 4,5-diphenyl-1H-pyrazol-1-yl, 1-5-diphenyl-1H-pyrazol-3-yl, 1,6-dihydro-6-oxo-3,4-diphenyl-1-pyridazinyl, 2,3-dihydro-3-oxo-5,6-diphenylmethyl-1,2,3-triazin-2-yl, and 5-(diphenylmethyl)-2H-tetrazol-2-yl.

Formula VIII compounds are those wherein R<sub>1</sub> is hydrogen, lower alkyl or an alkali metal ion, and the radical -OCH<sub>2</sub>CO<sub>2</sub>R is attached in the 3 or 4 ring position.



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## EUROPEAN SEARCH REPORT

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EP 91 10 1958

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
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A, D	US-A-4 168 315 (R.H. RYNBRANDT ET AL.) * claims 1,16 *	1, 10, 12	C07D239/36 C07D233/72 C07D257/04
A, D	US-A-4 486 443 (A.G. CALDWELL ET AL.) * claims 1,14,16,33,44 *	1, 10, 12	C07D277/30 C07D233/64 C07D231/12
A	EP-A-0 054 593 (SANOFI, S.A.) * claims 1,3 *	1, 10, 12	C07D233/84 A61K31/40 A61K31/41
A, D	US-A-4 330 550 (H.-H. LAUTENSCHLAGER ET AL.) * column 3, line 49 - line 59; claim 1 *	1, 12	A61K31/415 A61K31/425 A61K31/50
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A, D	US-A-4 460 598 (H.-H. LAUTENSCHLAGER ET AL.) * claims 1,21 *	1, 10	
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A, D	US-A-4 826 868 (M.P. WACHTER ET AL.) * claims 1,12 *	1, 10	C07D
A, D	US-A-2 712 542 (J.A. KING ET AL.) * column 3, line 8 - line 13; examples *	1, 10	
A, D	US-A-3 453 285 (S. HAYAO ET AL.) * abstract; claim 1 *	1, 10	
A, D	US-A-3 506 679 (J.F. CAVALLA ET AL.) * abstract; claim 1 *	1, 10	
A, D	US-A-4 853 404 (N. TAKAMURA ET AL.) * claims 1,10 *	2, 10	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 10 JUNE 1992	Examiner Christian Hass
<b>CATEGORY OF CITED DOCUMENTS</b>			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document			



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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	US-A-4 734 421 (M. L. HAMMOND ET AL.) * example 7 *  -----	3
The present search report has been drawn up for all claims		
Place of search BERLIN		Date of completion of the search 10 JUNE 1992
Examiner Christian Hass		
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document  T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons  A : member of the same patent family, corresponding document		